

DENON

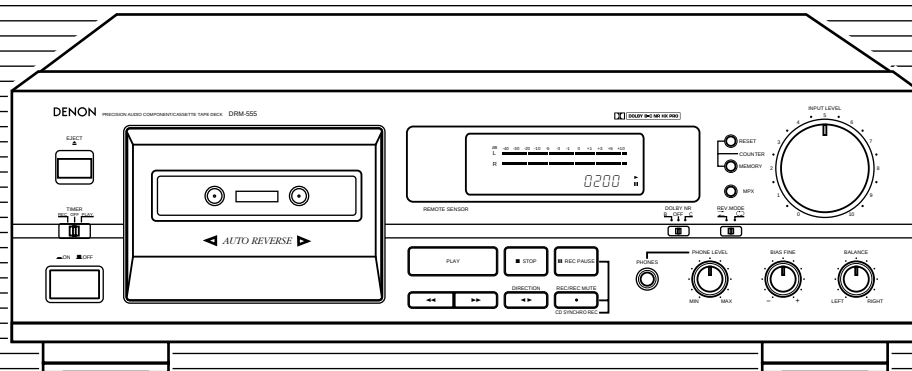
STEREO CASSETTE TAPE DECK

DRM-555

OPERATING INSTRUCTIONS

MODE D'EMPLOI

INSTRUCCIONES DE OPERACION



FOR ENGLISH READERS
POUR LES LECTEURS FRANCAIS
PARA LECTORES DE ESPAÑOL

PAGE 5 ~ PAGE 16
PAGE 17 ~ PAGE 28
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IMPORTANT TO SAFETY

WARNING:

TO PREVENT FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

CAUTION:

1. Handle the power supply cord carefully

Do not damage or deform the power supply cord. If it is damaged or deformed, it may cause electric shock or malfunction when used. When removing from wall outlet, be sure to remove by holding the plug attachment and not by pulling the cord.

2. Do not open the top cover

In order to prevent electric shock, do not open the top cover. If problems occur, contact your DENON DEALER.

3. Do not place anything inside

Do not place metal objects or spill liquid inside the cassette tape deck. Electric shock or malfunction may result.

Please, record and retain the Model name and serial number of your set shown on the rating label.

Model No. DRM-555

Serial No. _____



CAUTION

**RISK OF ELECTRIC SHOCK
DO NOT OPEN**



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

• FOR U.S.A. & CANADA MODEL ONLY

CAUTION

TO PREVENT ELECTRIC SHOCK DO NOT USE THIS (POLARIZED) PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

• POUR LES MODELES AMERICAINS ET CANADIENS UNIQUEMENT

ATTENTION

POUR PREVENIR LES CHOCS ELECTRIQUES NE PAS UTILISER CETTE FICHE POLARISEE AVEC UN PROLONGATEUR UNE PRISE DE COURANT OU UNE AUTRE SORTIE DE COURANT, SAUF SI LES LAMES PEUVENT ETRE INSEREES A FOND SANS EN LAISSER AUCUNE PARTIE A DECOUVERT.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

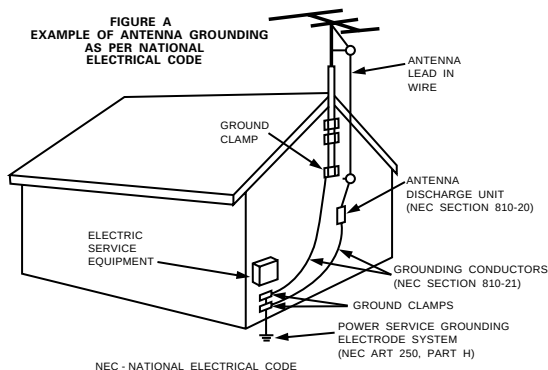
Cet appareil numérique de la classe B respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

SAFETY INSTRUCTIONS

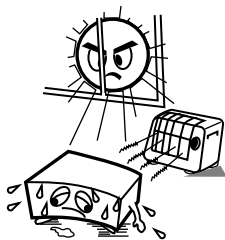
1. Read Instructions – All the safety and operating instructions should be read before the appliance is operated.
2. Retain Instructions – The safety and operating instructions should be retained for future reference.
3. Heed Warnings – All warnings on the appliance and in the operating instructions should be adhered to.
4. Follow Instructions – All operating and use instructions should be followed.
5. Water and Moisture – The appliance should not be used near water – for example, near a bathtub, washbowl, kitchen sink, laundry tub, in a wet basement, or near a swimming pool, and the like.
6. Carts and Stands – The appliance should be used only with a cart or stand that is recommended by the manufacturer.
- 6A. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
7. Wall or Ceiling Mounting – The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
8. Ventilation – The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
9. Heat – The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
10. Power Sources – The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
11. Grounding or Polarization – Precautions should be taken so that the grounding or polarization means of an appliance is not defeated.



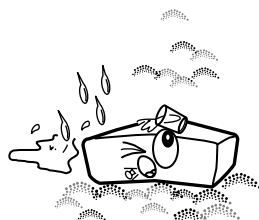
12. Power-Cord Protection – Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
14. Cleaning – The appliance should be cleaned only as recommended by the manufacturer.
15. Power Lines – An outdoor antenna should be located away from power lines.
16. Outdoor Antenna Grounding – If an outside antenna is connected to the receiver, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode. See Figure A.
17. Nonuse Periods – The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
18. Object and Liquid Entry – Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
19. Damage Requiring Service – The appliance should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
20. Servicing – The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.



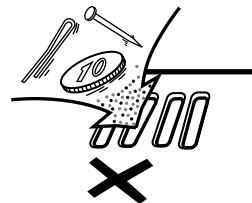
NOTE ON USE / OBSERVATIONS RELATIVES A L'UTILISATION / NOTAS SOBRE EL USO



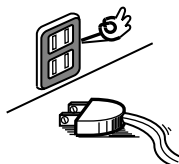
- Avoid high temperatures. Allow for sufficient heat dispersion when installed on a rack.
- Eviter des températures élevées. Tenir compte d'une dispersion de chaleur suffisante lors de l'installation sur une étagère.
- Evite altas temperaturas. Permite la suficiente dispersión del calor cuando está instalado en la consola.



- Keep the set free from moisture, water, and dust.
- Protéger l'appareil contre l'humidité, l'eau et la poussière.
- Mantenga el equipo libre de humedad, agua y polvo.



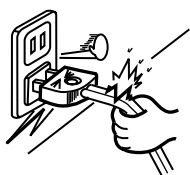
- Do not let foreign objects in the set.
- Ne pas laisser des objets étrangers dans l'appareil.
- No deje objetos extraños dentro del equipo.



- Unplug the power cord when not using the set for long periods of time.
- Débrancher le cordon d'alimentation lorsque l'appareil n'est pas utilisé pendant de longues périodes.
- Desconecte el cordón de energía cuando no utilice el equipo por mucho tiempo.



- Do not let insecticides, benzene, and thinner come in contact with the set.
- Ne pas mettre en contact des insecticides, du benzène et un diluant avec l'appareil.
- No permita el contacto de insecticidas, gasolina y diluyentes con el equipo.

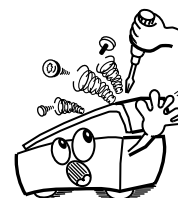


- Handle the power cord carefully. Hold the plug when unplugging the cord.
- Manipuler le cordon d'alimentation avec précaution. Tenir la prise lors du débranchement du cordon.
- Maneje el cordón de energía con cuidado. Sostenga el enchufe cuando desconecte el cordón de energía.



* (For sets with ventilation holes)

- Do not obstruct the ventilation holes.
- Ne pas obstruer les trous d'aération.
- No obstruya los orificios de ventilación.



- Never disassemble or modify the set in any way.
- Ne jamais démonter ou modifier l'appareil d'une manière ou d'une autre.
- Nunca desarme o modifique el equipo de ninguna manera.

Thank you very much for purchasing the DENON component stereo cassette tape deck.

DENON proudly presents this advanced tape deck to audiophiles and music lovers as a further proof of DENON's non-compromising pursuit of the ultimate in sound quality. The high quality performance and easy operation are certain to provide you with many hours of outstanding listening pleasure.

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Please check to make sure the following items are included with the main unit in the carton:

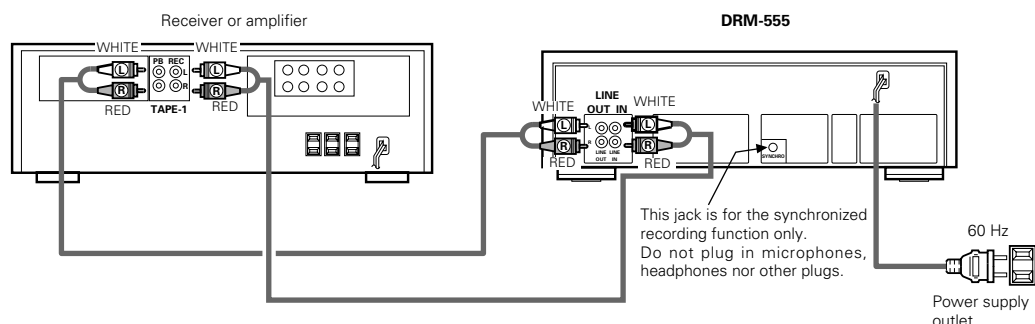
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FEATURES

- Computer Controlled Mechanism
- Dual Power Supply
- Dolby HX-Pro Headroom Extension System
- Dolby B & C Noise Reduction Systems
- Manual Bias Adjustment Control
- Computing Tape Counter with 4-Digit Readout and Memory Stop
- Music Search System
- FL Peak Level Meters
- Auto Tape Selector
- Synchronized Recording
- Timer Play and Timer Recording
- Optional Remote Controllable

CONNECTION

- Leave your entire system (including this cassette deck) turned off until all connections between the deck and other components have been completed.



■ Connecting the Deck to an Amplifier

- Before connecting the deck to your amplifier, please review your amplifier's instruction manual.
- Use the white plugs for the left channel and red plugs for the right channel.

■ Tape Dubbing

- Many stereo amplifiers and receivers have tape dubbing circuitry so that tape duplication can be performed between two or more tape decks. Review your amplifier's instruction manual for a full explanation of this mode of operation.

■ Connecting Headphones

To listen through headphones, plug your headphones into the PHONES jack.

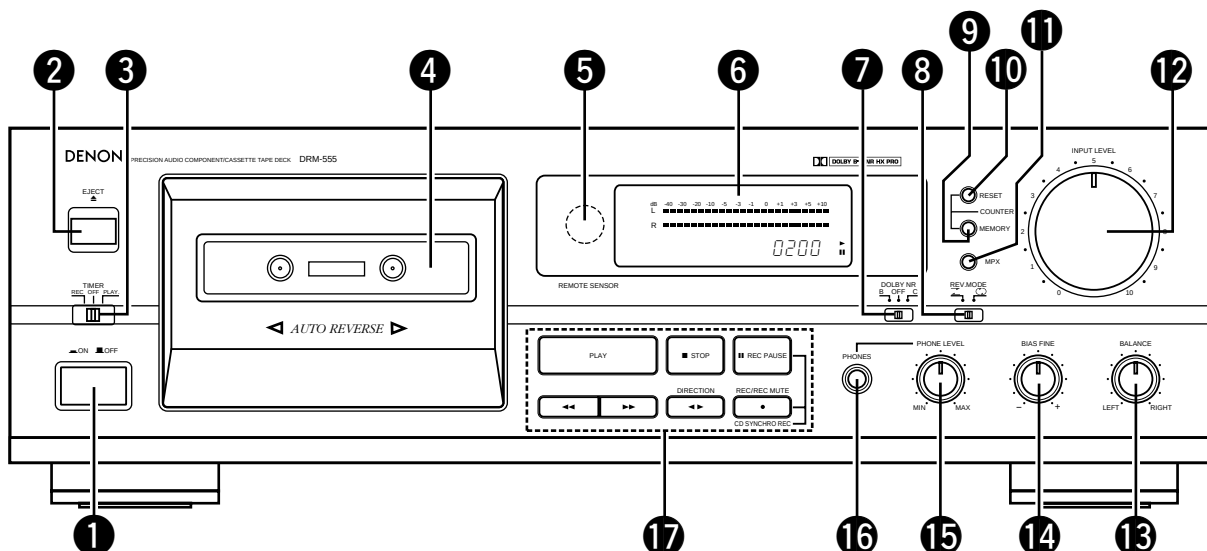
■ Installation Precautions

If the deck is placed near an amplifier, TV or tuner, noise (induced hum) or beat interference may result, especially during FM or AM reception. If this occurs, place the deck further away from other components or reorient its position.

Caution:

A mechanical sound is heard the first time the power switch is set to "ON" after the power cord is plugged into an outlet. This is the sound of the cassette mechanism being set to the proper operating state, and is normal. (When using an AC outlet on a receiver or amplifier, used an "UNSWITCHED" outlet.)

NAMES AND FUNCTIONS OF PARTS

**1 Power Operation Switch (ON OFF)**

- Press once to turn the power to deck on, and once more to turn the power off.
- The deck remains in a stand-by (non-operative) mode for approximately 2 seconds after it is switched on.

2 Eject Button (EJECT ▲)

- Press this button to open the cassette compartment cover. When the tape is running, press the Stop button (■ STOP) first to stop tape transport, then press the Eject button (EJECT ▲).

3 Timer Switch (TIMER)

- This switch is provided for use with an optional audio timer for unattended recording or morning-alarm playback.
- For non-timer operation, this switch should be set in the "OFF" position. See page 14.

4 Cassette Compartment Cover

- If the cover is not closed completely, the tape transport buttons will remain inoperative.

5 Remote Sensor (REMOTE SENSOR)

- With the cassette deck the remote control unit is not included.
- Each of "Play, Fast Forward, Fast Rewind, Stop, Rec Pause and Rec/Rec Mute" functions can be remote controlled with wireless handset of the receiver (DRA Series receivers). For details refer to the DRA Series operating instructions.

Caution:

Whenever the Power Operation switch is in the OFF state, the apparatus is still connected on AC line voltage. Please be sure to unplug the cord when you leave home for, say, a vacation.

6 Display**7 Dolby NR Switch (DOLBY NR)**

- To record or playback tapes with Dolby B or C-type noise reduction, set this switch to "B" or "C". Turn it "OFF" when not using the Dolby NR system.

8 Reverse Mode Switch (REV. MODE)

- Select the type of tape transport. The reverse mode can be set to  (one side),  (continuous playback).

9 Counter Memory Button (MEMORY)

- When this button is pressed during forward tape travel (▶), fast rewinding (◀) will stop automatically at the tape counter position "0000".
- When this button is pressed during reverse tape travel (◀), fast forwarding (▶) will stop automatically at the tape counter position "0000". See page 13.

10 Counter Reset Button (RESET)

- Press this button to reset the tape counter to zero.

11 MPX Filter Button (MPX)

- The MPX Filter button (MPX) should be used to prevent interference with the Dolby NR circuit when making Dolby NR encoded recordings of FM stereo programs.
- When making Dolby NR encoded recordings from any program source other than FM stereo, leave this button in the "OFF" position.

12 Input Level Control (INPUT LEVEL)

- This knob adjusts the recording input level. It affects the level in both channels. See page 10.

13 Balance Control (BALANCE)

- This is the knob to adjust the recording level balance between the left and right channels. Turn it counter-clockwise to reduce the right channel's level and clockwise to reduce the left channel's. Usually, put the knob at the center click position.

14 Bias Fine Control (BIAS FINE)

(For Normal, CrO₂ and Metal tape)

- Use this control to fine-adjust the bias. Standard bias is obtained at the center click-stop position. See page 11.

15 Phone Level Control (PHONE LEVEL)

- Head phone output level is adjusted by this knob. The levels in the left and right channels can be changed simultaneously.

16 Headphone Jack (PHONES)

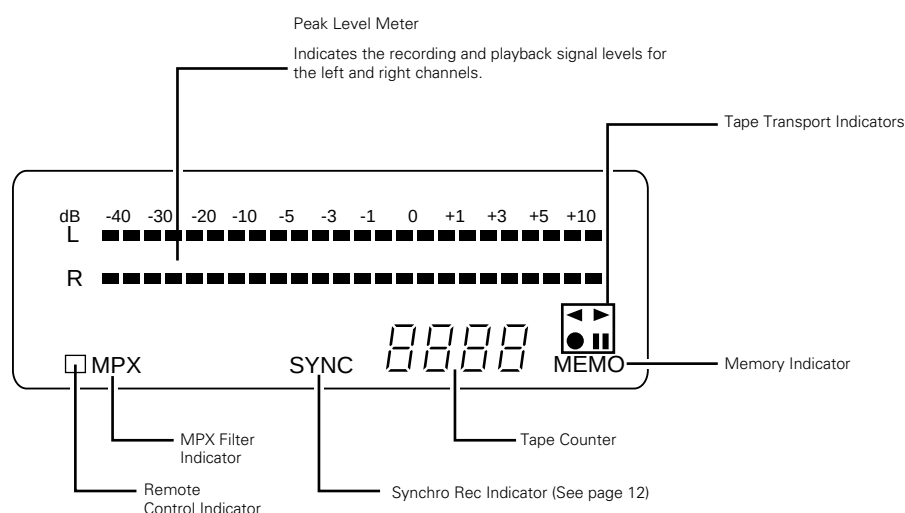
- For private music enjoyment without disturbing others, or for monitoring a recording, a headphone set may be connected to this jack. Use a headphone with an impedance rating of 8 to 1200 Ω/ohms.

17 Tape Transport Buttons

PLAY	Play Button	Press to playback tape.
■ STOP	Stop Button	Press to stop the tape in any mode.
◀◀	Fast Rewind Button	Press for fast rewind.
▶▶	Fast Forward Button	Press for fast forwarding.
●	Rec/Rec Mute Button	Press the Rec/Rec Mute button (REC/REC MUTE) (●) and Play button (PLAY) simultaneously to start recording. If only the Rec/Rec Mute button (REC/REC MUTE) (●) is pressed, the deck enters the recording pause mode. Pressing this button in the recording pause mode will start Auto Rec Mute, and a 5-second silent space is recorded onto the tape.
REC PAUSE	Rec Pause Button	Press this button to enter the recording pause mode from the recording or recording mute mode. This button can only be used during recording.
◀▶	Direction Button	Changes the tape transport direction from forward "▶" to reverse "◀", and vice versa.

6 Display

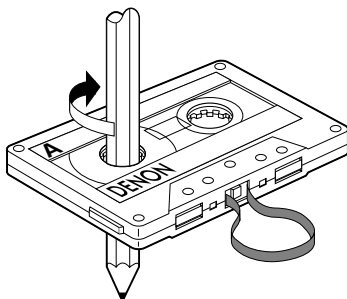
- Indicators with an encircled number light up when the corresponding button is pressed.



CASSETTE TAPES

■ Handling Precautions

- C-120 cassette tapes
C-120 cassette tapes are not recommended as they use a very thin tape base which may become tangled around the capstan or pinch roller.
- Tape Slack
Before putting a tape into the deck, take up any slack with a pencil or your finger tip. This precaution prevents the tape from becoming entangled around the capstan or pinch roller.

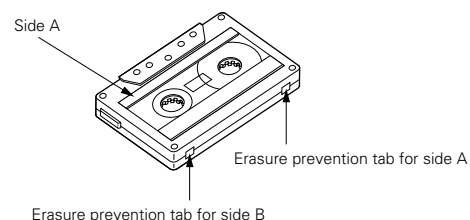


■ Storage Precautions

- Do not store cassette tapes in a place where they will be subject to:
 - Extremely high temperature or excessive moisture
 - Excessive dust
 - Direct sunlight
 - Magnetic fields (near TV sets or speakers)
- To eliminate tape slack, store your cassettes in cassette cases with hub stops

■ Accidental Erasure Prevention

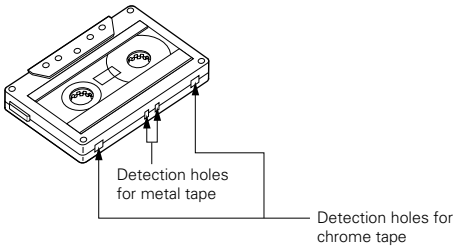
- All cassettes have erasure prevention tabs for each side. To protect valuable recordings from accidental or inadvertent erasure, remove the tab for the appropriate side with a screwdriver or another tool.
- To record on a tape whose erasure prevention tabs have been removed, cover the tab holes with adhesive tape.



AUTOMATIC TAPE SELECTION

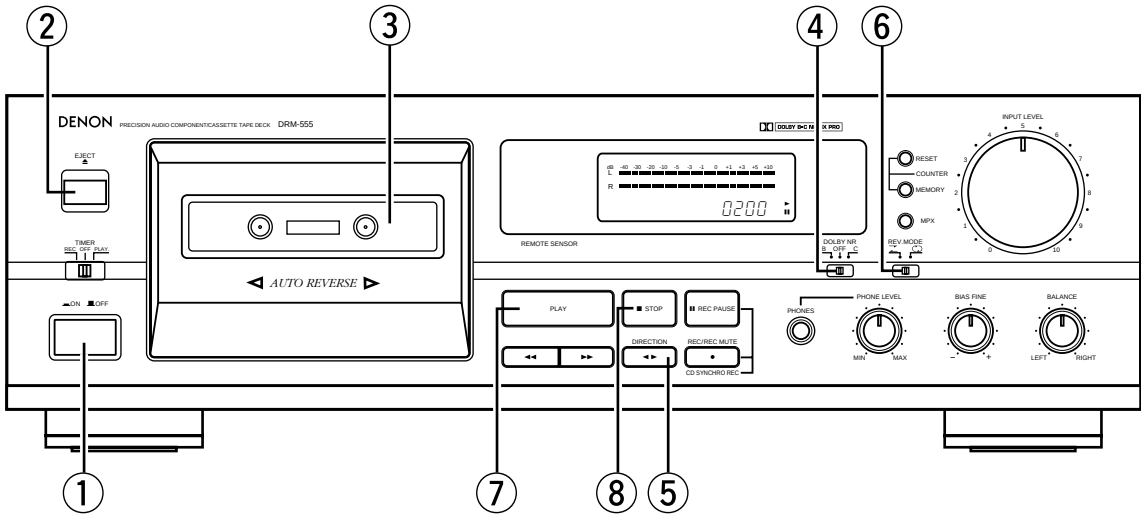
This Stereo Cassette Deck contains an automatic tape selector which automatically selects the optimum bias and equalization for the tape in use. This is accomplished by detection of the tape type detection holes in the cassette housing.

- If a tape without tape type detection holes is used, the deck will be set for normal tapes.



PLAYBACK

- Switch on your amplifier or receiver.
- Set the Tape Monitor switch on your amplifier or receiver to the TAPE position.
- The numbers in the illustration below depict the order in which operation steps are carried out.



- ① Press the Power Operation switch to the ON position.
- ② Press the Eject button (EJECT) to open the cassette compartment cover.
- ③ Load the cassette tape and close the cassette compartment cover.
- ④ When listening to a tape that has been recorded with Dolby noise reduction, set the Dolby NR switch (DOLBY NR) to match the system used at the time of recording.

- ⑤ Press the Direction button () to select the direction of tape transport.

Transport Direction	Indicator
Forward	
Reverse	



- ⑥ Select the type of tape transport with the Reverse Mode switch (REV. MODE).



Mode	Switch position
To listen to one side only	
To listen to repeat playback of both sides	

■ MUSIC SEARCH SYSTEM

The music search system detects blank sections (lasting for at least 4 seconds) between selections in order to locate the beginning of selections in the forward or reverse direction.

- To advance from the current selection to the beginning of the next selection (CUE):
Press the Play button (PLAY), and press the Fast Forward button () when the tape is travelling in the forward () direction.
Press the Play button (PLAY), and press the Fast Rewind button () when the tape is travelling in the reverse () direction.
The tape transport indicator flashes.
The deck will skip the rest of the current selection and automatically resume play from the beginning of the next selection.
- To repeat playback from the beginning of the current selection (REVIEW):
Press the Play button (PLAY), and press the Fast Rewind button () when the tape is travelling in the forward () direction.
Press the Play button (PLAY), and press the Fast Forward button () when the tape is travelling in the reverse () direction.
The tape transport indicator flashes.
The deck will rewind the tape to the beginning of the current selection and automatically resume play from that point.
This is very convenient for repeating playback of the current selection.

- Press the Play button (PLAY) to begin playback.
- Press the Stop button (STOP) to stop the playback.
 - In the continuous playback mode (Reverse Mode switch (REV. MODE) set to), playback of both tape sides will be repeated 5 times and then stop automatically.
 - If different types of Dolby noise reduction are used for record and playback, playback response will be adversely effected.
 - When power is turned off during tape transport, it may not be possible to remove the cassette by pressing the Eject button (EJECT). In this case, turn on power again before you press the Eject button (EJECT).

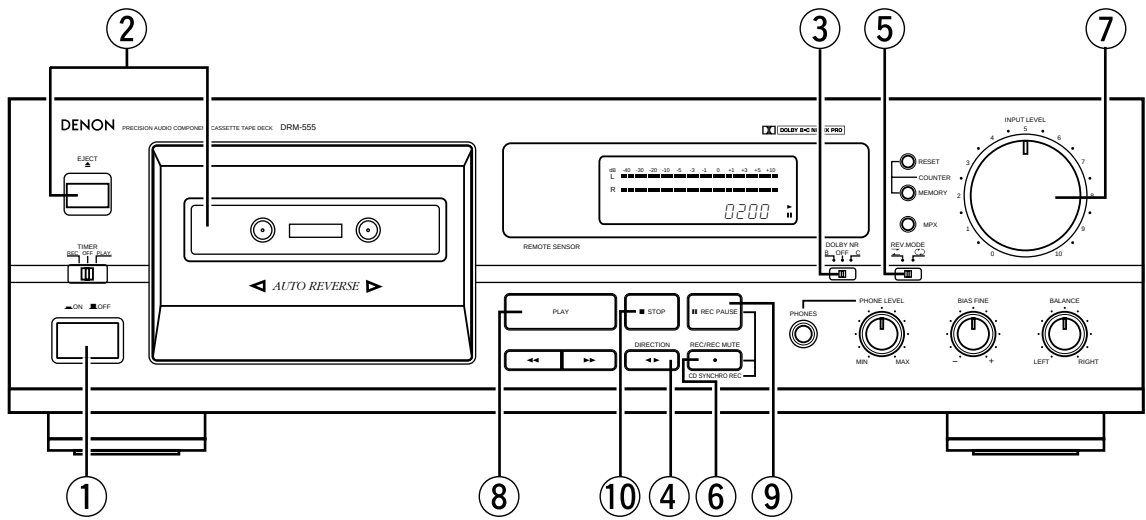
Notes on Music Search Operation:

The search functions operates by detecting comparatively long, blank sections approximately 4 to 5 seconds long, in between recorded selections. Therefore, the system may not operate normally in the following cases:

- Recordings with discontinuous speech or conversation.
- Recordings with long periods of pianissimo (softly played music).
- Recordings with long silences.
- Blank sections with a high level of noise.
- Blank sections shorter than 4 seconds.
- If noise-emitting appliances, such as electric razors, drills, refrigerators, etc., are operated nearby.
- REV. close to the beginning of the program or CUE close to the ending.

RECORDING

- Switch on your amplifier or receiver and the source component.
- Set the Tape Monitor switch on your amplifier or receiver to the SOURCE position.



- ① Press the Power Operation switch to the ON position.
- ② Load the cassette tape.
(Check that the erasure prevention tabs of the cassette housing have not been broken off.)
- ③ Move the Dolby NR switch (DOLBY NR) and select the Dolby NR type that suits the recording.



- ④ Press the Direction button () to select the direction of tape transport.
- ⑤ Select the type of tape transport with the Reverse Mode switch (REV. MODE).

Mode	Switch position
To record on only one side	
To continuously record on both sides	

- ⑥ Press the Rec/Rec Mute button (REC/REC MUTE) () to set the recording pause mode. The indicator will light up.
- ⑦ Adjust the recording level with the Input Level control (INPUT LEVEL) while watching the Peak Level Meter.
- ⑧ Press the Play button (PLAY) to start the recording.
The play (or) and the indicator will light during recording.
- ⑨ To pause the recording, press the Rec Pause button (REC PAUSE).
Press the Play button (PLAY) to resume recording.
- ⑩ To stop recording, press the Stop button (STOP).

Caution:

- Be careful not to erase important recordings by mistake. Inadvertent start of recording will happen in the following cases:
 1. If the Play button (PLAY) is pressed while the indicator lights, recording starts.
 2. If the Play button (PLAY) and Rec/Rec Mute button (REC/REC MUTE) () are pressed at the same time, recording starts.The best way to avoid accidental erasure is to break off the two erasure prevention tabs on the cassette housing.

■ PROPER RECORDING LEVEL

A too high recording level can saturate the tape and cause distortion. On the other hand, if the recording level is set too low, soft passages will be marked by residual noise. A proper recording level is the single most important factor for making well balanced recordings.

Guideline for maximum recording level

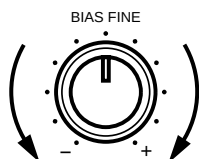
TYPE I (Normal)	0 dB level on peaks
TYPE II (CrO2)	+1 dB level on peaks
TYPE IV (Metal)	+3 dB level on peaks

Note: The optimum recording level differs depending on the program source and the type of tape used.

■ RECORDING BIAS ADJUSTMENT

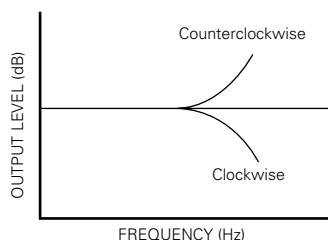
For best recording results, monitoring during recording and comparing different recordings using your own judgement are essential.

The DENON cassette deck is equipped with a Bias Fine control (BIAS FINE) to assist you in setting the proper bias for different types and brands of tape. At the center stop-click position, the deck is set to the reference bias level for Normal, CrO₂ and Metal tape. If the resulting recording in this position has too much or too little high frequency content, adjusting the Bias Fine control (BIAS FINE) can be useful to achieve better results.



If the high frequencies (treble sounds) are to be boosted, turn the Bias Fine control (BIAS FINE) counter-clockwise to decrease the bias current. Turn the control clockwise to increase bias current.

By the use of this control, you can record tapes with a frequency response that will perfectly match your listening taste.



■ REC/REC MUTE AND REC PAUSE BUTTON

1. To record a 5-second blank section during recording:
Press the Rec/Rec Mute button (REC/REC MUTE) (●). A 5-second blank will be recorded and the deck will enter the recording standby mode.
2. To record a 5-second blank section during the recording standby mode:
Press the Rec/Rec Mute button (REC/REC MUTE) (●) from the recording standby mode. A 5 second blank will be recorded and the deck will enter the recording standby mode again.
3. To cancel recording of blank space:
Press the Rec Pause button (■ REC PAUSE). Blank space recording will be cancelled and the deck enters the recording standby mode.
4. To extend the blank section with another 5 seconds or more:
Simply press the Rec/Rec Mute button (REC/REC MUTE) (●) and the blank section will be increased with another 5 seconds.

DIMMER ADJUSTMENT

With the DRM-555, the brightness of the display can be adjusted in seven steps.

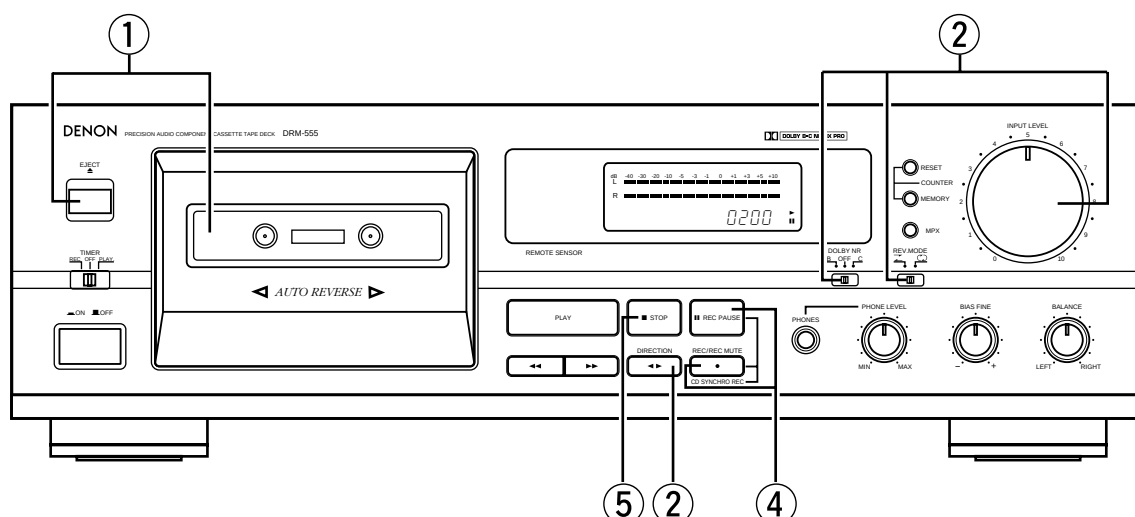
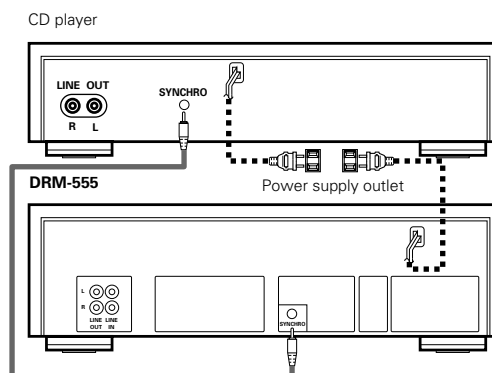
To make the display brighter, press the Fast Forward button (▶▶) while holding in the Stop button (■ STOP).

To make the display dimmer, press the Fast Rewind button (◀◀) while holding in the Stop button (■ STOP).

The display is initially set to the maximum brightness.

SYNCHRONIZED RECORDING FUNCTION

- Convenient synchronized recording can be performed when used in combination with a DENON CD player equipped for the synchronized recording function.
- Synchro jack (SYNCHRO) Connection connect the Synchro jack (SYNCHRO) with a DENON CD player which is equipped with a Synchro jack (SYNCHRO), then make a synchronized recording. Use the connection cord supplied with this cassette deck.
- Switch on your amplifier or receiver and the CD player.
- Set the Tape Monitor switch on your amplifier or receiver to the source position.



- ① Load the tape, the disc you want to record into the CD player.
- ② Following the recording instructions on page 10, set the Dolby NR mode, and the input level.
- ③ Set the CD player to the stop or pause mode.
- ④ Press the Rec/Rec Mute button (REC/REC MUTE) (●) and Rec Pause button (■ REC PAUSE) simultaneously. The cassette deck and CD player are automatically set to the synchronized recording mode. The "SYNC" indicator flashes on the cassette deck and the synchronized recording mode is indicated on the CD player.
(For details, refer to the CD player's operating instructions.)
- ⑤ To stop synchronized recording, press the Stop button (■ STOP) on cassette deck and stop button on CD player.
The synchronized recording mode is cancelled for both the cassette deck and CD player.
- ⑥ To stop synchronized recording temporarily, press the Stop button (■ STOP) on the CD player. A 5-second blank space is created on the tape, after which the recording pause mode is set. The "SYNC" indicator flashes.
To resume synchronized recording, press the Play button (PLAY) on the CD player.

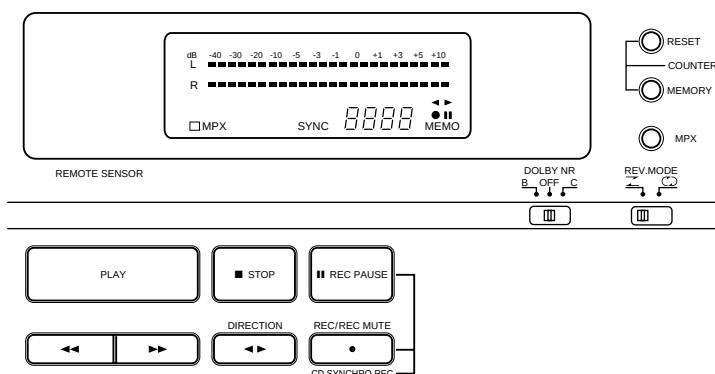
Notes:

- If synchronized recording is started when the CD player is in a mode other than the stop or pause mode or when no disc is set, the "SYNC" indicator on the cassette deck flashes and the recording pause mode is set until synchronized recording is possible on the CD player.
- In the synchronized recording mode, only the Stop button (■ STOP) will function.

Caution:

- Do not set the cassette deck to the synchronized recording mode when the CD player is in the play mode. Also, do not turn off the power of the cassette deck or the CD player during synchronized recording. Doing so can result in malfunction.
- During the editing operation, when using the editing functions on the CD player, be sure to select a tape with a sufficiently long recording time.

TAPE COUNTER AND MEMORY STOP



1) Operation of the Tape Counter

- (1) Press the Counter Reset button (RESET) to reset the counter to "0000".
- (2) By using the Play, Fast Forward or Fast Rewind functions, the reading of the counter will change to indicate index position.
 - During recording and playback operations, the counter is useful for noting the location of existing programs or positions where recording is to be started.
 - The reading of this counter does not correspond with that of any other deck.

2) MEMORY STOP Operation

- (1) During recording or playback, the Memory Stop feature can be used to locate a particular point on the tape. Press the Counter Reset button (RESET) at the desired point.
- (2) Then press the Counter Memory button (MEMORY), the MEMO indicator lights.

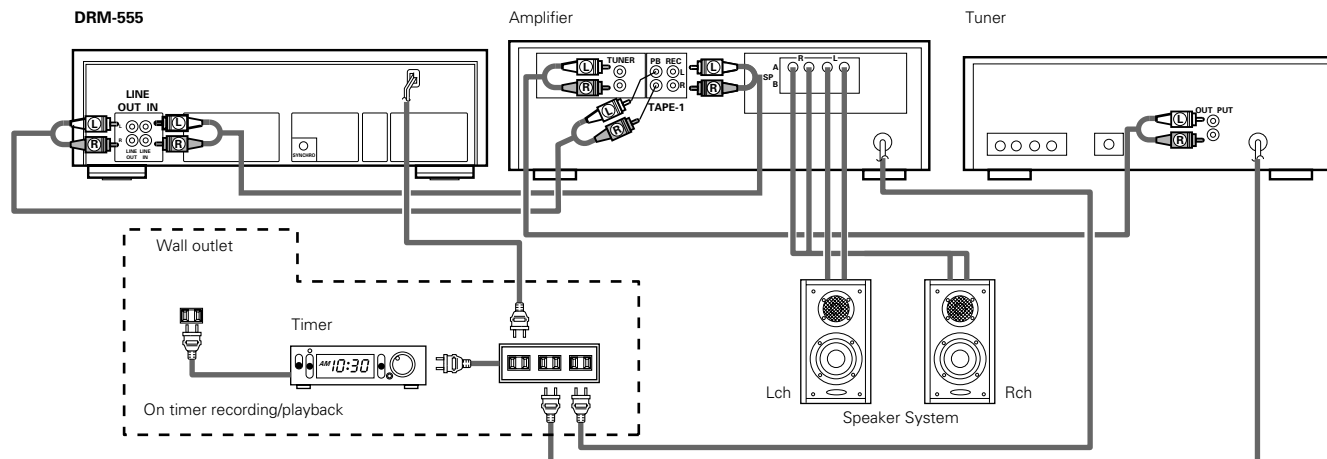
- (3) When the Fast Rewind button (◀◀) is pressed during forward tape travel (▶), or the Fast Forward button (▶▶) is pressed during reverse tape travel (◀), the tape is rapidly rewound (or advanced) until the counter indication of "0000" is reached.
 - The Memory Stop feature will rewind or forward the tape to within -5 counts in the forward (▶) direction (from "0000" to "-0005") and to within +5 counts in the reverse (◀) direction (from "0000" to "0005"). After this, several seconds are required for corrective operations.

Caution:

If the memory stop operation is performed after repeated fast-forwarding or rewinding, the tape may not stop at the proper position.

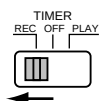
TIMER RECORDING/PLAYBACK

Timer recording/playback can be made using any audio timer available on the market.



• Timer recording procedure

1. Make sure the connections are correct, especially the power supply connections.
2. Turn on the power switch of each appliance.
3. Tune the desired station on the tuner.
4. Load the tape for recording. (Make sure the erase prevention tab is not broken off; if it is, cover the hole with plastic tape).
5. Set the Dolby NR switch (DOLBY NR) to the appropriate position.
6. Make sure the Monitor switch to the SOURCE position.
7. Adjust the recording input level.
8. Set the starting position of the tape.
9. Set the Timer switch (TIMER) to the "REC" side.



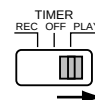
10. Set the audio timer to the desired time. The audio timer will turn the power supply on at the desired time.

※ With the above procedures, timer controlled recording can be made. When the preset time comes, the power is supplied and the FM broadcast can be recorded.

• Timer playback procedure

1. Make sure the connections are correct, especially the power supply connections.
2. Turn on the power switch of each appliance.
3. Load the pre-recorded tape to be played back.

4. Set the Dolby NR switch (DOLBY NR) to the appropriate positions.
5. Set the Monitor switch of the Amplifier to the TAPE position.
6. Press the Play button (PLAY) and playback the tape; adjust the playback level. Press the Stop button (■ STOP).
7. Set the Timer switch (TIMER) to the "PLAY" side.



8. Set the audio timer to the desired time. The audio timer will turn the power supply on at the desired time.

※ With the above procedures, timer playback can be accomplished. When the preset time comes, the power is supplied and playback will start.

Notes:

- Please read the operating instructions for the timer before use.
- If the timer recording or playback is not desired, be sure to switch the Timer switch (TIMER) to "OFF".
- When using timers that allow several "ON/OFF" operations, timer start functioning can continue an unlimited number of times until the tape in the machine is finished.

DOLBY B AND C NOISE REDUCTION SYSTEM

- The Dolby noise reduction system substantially reduces the tape background noise (hiss) inherent in the cassette medium. Dolby B NR is most widely in use. However Dolby C NR is a much more recent development and represents significant improvements over Dolby B NR.
- Tape background noise consists primarily of high frequency information, which is particularly annoying during soft passages. The Dolby NR system increases the level of low volume mid- and high-frequency signals during recording and reduces the level of these signals by an identical amount during playback. As a result, the playback signal is identical to the original source, but the level of background noise generated by the tape is greatly reduced.

- The operating principle of Dolby C NR is similar to that of Dolby B NR except for the encoding/decoding response curves. The noise reduction effect obtained with Dolby C NR is up to 20 dB, compared to 10 dB with Dolby B NR. In addition, Dolby C NR uses an anti-saturation network and spectral skewing circuitry for a significant improvement in the dynamic range of the mid- to high-frequencies.

DOLBY HX-PRO HEADROOM EXTENSION SYSTEM

This deck is equipped with the Dolby HX-PRO headroom extension system. Since the system functions automatically during recording, no switching operation or adjustment is required. The system is effective with any type of Normal, CrO₂ and Metal tape.

The Dolby HX-PRO headroom extension system functions during recording to raise the saturation level in the treble range. Therefore, most of the treble range components distorted or lost during recording on conventional cassette decks are more faithfully recorded on the new DENON cassette deck.

Features of the Dolby HX-PRO Headroom Extension System

- (1) Performance of Normal and CrO₂ tapes can be improved to very close of that offered by Metal tape.
- (2) The dynamics in the treble range are improved significantly.
- (3) Since no decoding is necessary during playback, the improved sound can be enjoyed on any type of tape deck, including portable players and car audio systems.
- (4) The system functions whether the Dolby B/C NR system is engaged or not.

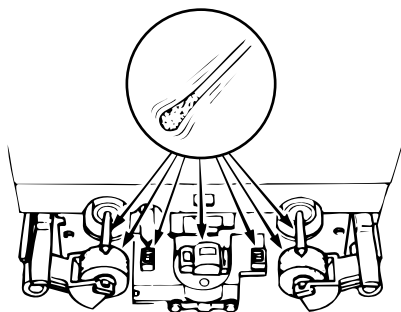
MAINTENANCE

■ Head cleaning

After long usage, tape coating or dust may adhere to the heads, causing deterioration of sound. Therefore, the parts depicted in the illustration should be cleaned regularly. Use a cotton swab moistened with a tape head cleaning solution (such as alcohol).

Notes:

1. Some cleaning cassettes on the market have a strong abrasive effects and may scratch the heads. Always use cotton swabs instead of cleaning cassettes.
2. Since the use of metal tape is apt to collect more dust on the heads, the heads should be cleaned more often to enjoy the best possible sound.



■ Cleaning the Pinch Rollers and Capstans

If the pinch rollers or capstans accumulate dust, tape transport may become unstable, as a result from slippage, during recording or playback. The tape can also be damaged if it gets entangled in the capstan.

Clean these parts with a cotton swab or a soft cloth moistened with a tape head cleaning solution (such as alcohol).

■ Demagnetizing the Heads

The heads will become magnetized after long usage or if strongly magnetized objects are brought near them. The result is a generation of noise, loss of the high frequency range, and in extreme cases erasure of treble components on pre-recorded tapes in combination with added noise.

Thus, the heads should be demagnetized at regular intervals. (Head demagnetizers are separately available from your dealer.)

■ How to Demagnetize the Tape Heads

1. Turn off the power.
2. Turn on the demagnetizer while it is at least 30 cm away from the heads. Bring the demagnetizer near the heads and slowly move it in small circles four or five times in front of each head, making sure you do not touch them.
3. Slowly move the demagnetizer away and turn it off when it is at least 30 cm away from the heads.

TROUBLESHOOTING

Check the following before you draw the conclusion that your Stereo Cassette Deck is malfunctioning.

1. Are all the connections correct?
2. Are all system components being operated correctly in accordance with the operating instructions?
3. Are the speakers and amplifier/receiver functioning correctly?

If the tape deck still does not function properly, check the symptom against the list below. If the symptom does not correspond to the check list, please contact your DENON dealer.

Problem	Cause	Remedy
Tape does not run.	• Power cord is disconnected. • Tape is loose. • Cassette is not loaded properly. • Defective cassette.	• Check power cord. • Tighten tape with a pencil, etc. • Load cassette properly. • Replace cassette.
Tape is not recorded when Rec/Rec Mute button (REC/REC MUTE) (●) is pressed.	• No cassette is loaded. • Erase prevention tabs are broken off.	• Load cassette. • Cover holes with adhesive tape.
Sound is warbled or distorted.	• Heads, capstan or pinch roller are dirty. • Tape is wound too tight. • Recording input level is too high. • Tape is worn out and has "drop-outs".	• Clean them. • Fast forward or rewind to loosen tape winding. • Adjust recording input level. • Replace tape.
Excessive noise.	• Tape is worn. • Heads, capstan or pinch roller are dirty. • Heads are magnetized. • Recording input level is too low.	• Replace them. • Clean them. • Demagnetize heads. • Adjust recording input level.
High frequency range (treble) is emphasized.	• Dolby NR switch (DOLBY NR) is set improperly.	• Set Dolby NR switch (DOLBY NR) properly.
High frequency range (treble) is lost.	• Heads are dirty. • Tape is worn.	• Clean them. • Replace tape.
The cassette tape cannot be removed.	• If the Power Operation switch is turned off either during recording or playback and the unit is stopped, there may be cases when the cassette cannot be removed, even if the Eject button (EJECT ▲) is pressed.	• Turn the Power Operation switch  ON again, and then press the Stop button (■ STOP). • Now, press the Eject button (EJECT ▲) to remove the cassette tape.

SPECIFICATIONS

Type	Vertical tape loading; 4-track 2-channel stereo cassette tape deck	Inputs	
Heads	Play back head x 1 recording/playback head x 1	LINE	80 mV (–20 dBm) input level at maximum Input impedance: 50 k Ω /kohms unbalanced
Motors	Erase head (Double-gap ferrite) x 1	Outputs	
Tape Speed	DC servo motor x 1	LINE	775 mV (0 dB) output level at maximum (with 47 k Ω /kohms load, recorded level of 200 pwb/mm)
Fast Forward,		PHONES	1.2 mW output level at maximum (optimum load impedance 8 Ω /ohms –1.2 k Ω /kohms)
Rewind Time	Approx. 110 sec. with a C-60 cassette	Power Supply	60 Hz, voltage is shown on rating label
Recording Bias	Approx 105 kHz	Power Consumption	12 W
Overall S/N Ratio (at 3% THD level)	Dolby C NR on: more than 74 dB (CCIR/ARM)	Dimensions	434 (W) x 135 (H) x 270 (D) mm
Overall Frequency Response	20 ~ 17,000 Hz $\pm$ 3 dB (at –20 dB, Metal tape)	Weight	3.6 kg
Channel Separation	More than 40 dB (at 1 kHz)		
Wow & Flutter	0.08% WRMS, $\pm$ 0.14% w. peak		

* Above specifications and design are subject to change without prior notice.

Dolby noise reduction and HX Pro headroom extension manufactured under license from Dolby Laboratories Licensing Corporation. HX Pro originated by Bang & Olufsen.

"DOLBY", the double-D symbol  and "HX PRO" are trademarks of Dolby Laboratories Licensing Corporation.

DENON SERVICE NETWORK/服務網絡

- **Please contact one of our overseas service centers, listed below, for follow-up service consultation.**
- **Adressez-vous à nos centres de service d'outre-mer indiqués ci-dessous, pour le service aprèsvente.**
- **Para consultas de servicio porfavor dirigirse a cualquiera de nuestros centros de servicio en el extranjero, enlistados abajo.**

Australia	AWA Audio Products Pty Ltd. 67 O'Riordan Street, Alexandria NSW 2015, Australia Tel: (02) 9669-3477 Fax: (02) 9578-0140
Austria	Digital-Professional-Audio Vertriebsges.m.b.H., 1170 Wien, Rupertusplatz 3 Tel: 0222-4501006~9, Fax: 0222-457679
Belgium	Transtel-Sabima P.V.B.A. Harmoniestraat 13, 2018 Antwerpen 1, België Tel: 03-237-3607
Canada	Denon Canada Inc. 17 Denison Street, Markham Ontario, Canada L3R 1B5 Tel: 905-475-4085 Fax: 905-475-4159
China	Shanghai Denon Products Service Co., Ltd. Room 1504, A Building 527 Huaihai Zhong Road, Shanghai 200020, P.R.C. Tel: (021)53062078 上海天龍音響產品服務有限公司 中國上海市淮海中路527號A樓1504室 郵編：200020 電話：(021)53062078
Czecho	EUROSTAR OSTORAVA s.r.o. Za Vokovikou vozovnou 369/5, 161 00 Praha 6 Tel: 2-316-3690 Fax: 2-316-6852
Denmark	Hifi Klubben A/S Dali Alle 1, 9610 Noerager, Denmark Tel: 45-96 72 10 00 Fax: 45-96 72 10 14
Finland	Suomen Hi-Fi Klubi OY Nylandsgatan 4-6, Helsingfors Tel: 0644401
France	Denon France S.A. 3 Boulevard Ney, 75018 Paris Tel: 44-89-68-69
F.R. Germany	Denon Electronic GmbH Halskestraße 32, 40880 Ratingen Tel: 02102-4985-0
Greece	KINOTECHNIKI LTD. 47 Stournara Str., Athens Tel: 380-6998
Hong Kong	Denon Hong Kong Ltd., 11/F North, Somerset House 979 King's Road, Quarry Bay, Hong Kong Tel: 2516-6862, Fax: 2516-5940
Iceland	Japis Ltd. Brautarholt 2, Box 396, 121 Reykjavik, Iceland Tel: 5625200
Indonesia	PT Autoaccindo Jaya. Cideng Barat No. 7 Jakarta, Indonesia Tel: 633-2730
Italy	Melchioni S.P.A. Via P. Colletta 37-20135 Milano Tel: (02) 57941
Korea	DAIYOUNG Industrial Co.,Ltd. 1027-5, Bangbae-dong, Seocho-gu, Seoul 137-060 Korea Tel: 02-588-3960 Fax: 02-586-3721
Malaysia	Pertama Audio (PJ) Sdn. Bhd. 38, 40 & 42 Jalan PJS 11/28A Sunway Metro Bandar Sunway 46510 Selangor, Malaysia Tel: 03-7378888 Fax: 03-7378188
Mexico	Labrador, S.A. de C.V. Zamora No. 154 Col. Condesa 06140 Mexico, D.F. Tel: 286 55 09 Fax: 286 34 62
Netherlands	Penhold B.V. Poppenbouwing 58, NL-4191 NZ Geldermalsen, Netherland Tel: 31-345-588 080 Fax: 31-345-588 085
New Zealand	Avalon Audio Corpn. Limited 119 Wellesley Street, Auckland 1, New Zealand Tel: 09-779-351, 09-775-370
Norway	Hi-Fi Klubben Box 70 Ankertorget, 0133 Oslo 1 Tel: 02-112218
Poland	HORN DISTRIBUTION ul. Nowoursynowska 131R (wjazd od ul. Rosota) 02-975 Warszawa Tel: 22-649-3071 Fax: 22-649-3199
Portugal	Videoacustica Qta. Do Paizinho-Armazém 5-Estrada De Circunvalação-Apart. 3127 1303 Lisboa Codex Tel: 2187004/2187096
Singapore	Denon Electronics Singapore Pte Ltd. 257 Selegie Road #03-257 Selegie Complex Singapore 188350 Tel: 65-339-1181 Fax: 65-339-8366
Spain	Gaplasa S.A. Conde de Torroja, 25, 28022 Madrid Tel: 91-329-42-63
Sweden	Sveriges Hi-Fi Klubb Box 5116, S-402 23 Göteborg Tel: 031-200040
Switzerland	Diethelm & Co., AG. Grindelstrasse 5, 8303 Bassersdorf Tel: 01-838-1611
Taiwan R.O.C.	Taiwan Kolin Co., Ltd. 10th Fl., 86, Sec. 1, Chung-king S. Rd., Taipei, Taiwan R.O.C. Tel: (02) 314-3151 (20 Lines) Fax: (886) 02-3614037 Telex: 11102 TKOLIN
進口廠商	KOLIN 歌林股份有限公司 台北市重慶南路一段86號10樓 電話：(02) 314-3151
Thailand	Mahajak Development Co., Ltd. 6th Fl., Mahajak Building, 46 Sukhumvit 3 (Nananua), Klongteoy, Prakanong, Bangkok 10110 Tel: 256-0020
United Kingdom & Eire	Hayden Laboratories Ltd. Hayden House, Chiltern Hill, Chalfont St. Peter Gerrards Cross, Bucks, SL9 9UG Tel: 01753-888447
U.S.A.	DENON ELECTRONICS, a Division of Deonon Corporation (U.S.A.) 222 New Road Parsippany, NJ07054, U.S.A., Tel: 973-575-7810, Fax: 973-575-1213

* If there is no service center in your local area, consult the outlet where the equipment was purchased.

* S'il n'y a aucun centre de service dans votre région, consultez votre revendeur.

* Si no hay centros de servicio en su área local, consulte en donde haya comprado su equipo.

NIPPON COLUMBIA CO., LTD.

14-14, AKASAKA 4-CHOME, MINATO-KU, TOKYO 107-8011, JAPAN

Telephone: (03) 3584-8111

Cable: NIPPON COLUMBIA TOKYO Telex: JAPANOLA J22591

This warranty will be honored only in the U.S.A.

DENON[®]

LIMITED WARRANTY

Length of Warranty

This warranty on your DENON audio product which is distributed and warranted by DENON ELECTRONICS, a Division of DENON Corporation (U.S.A.) remains in effect for the following periods from the date of the original consumer purchase from an AUTHORIZED DENON ELECTRONICS, a Division of DENON Corporation (U.S.A.) DEALER:

Product Category

Turntables	(1) Autolift	(DP-L)	4 years
	(2) Full Automatic	(DP-F)	2 years
Timers, Integrated Amplifiers		(TU, PMA)	3 years
Preamps, Digital Preamps, Poweramps, Head Amplifiers		(PRA, AVP, DAP, POA, HA)	3 years
Digital Surround Decoder		(AVD)	3 years
A/V Controllers, A/V Receivers, AM/FM Receivers		(AVC, AVR, DRA)	2 years
Compact Disc Players, DVD Players		(DCD, DCM, DP, DA, DVD, DVM)	1 year
Tape Recorders, Compact Disc Recorders, Minidisc Recorders		(DRM, DRR, DRS, DRW, CDR, DMD)	1 year
Karaoke Systems		(DCG, HMA)	1 year
Cartridges, Accessories		(DL, AU)	90 days

What is Covered

Except as specified below, this Warranty covers all defects in material and workmanship in this product. The following are not covered by the Warranty: (1) Any product which is not distributed in the U.S.A. by DENON ELECTRONICS (2) Any product which is not purchased in the U.S.A. from an authorized DENON dealer, unless the product is purchased through the U.S.A. Military Exchange Service where the Warranty will be One (1) year for all products listed above except in the case of Cartridges which will remain at 90 days. (Note: AUTHORIZED DENON DEALERS can be identified by DENON AUTHORIZED DEALER sticker displayed in the stores. If you are uncertain as to whether a dealer is a DENON AUTHORIZED DEALER, please contact DENON as listed below.) (3) Any product on which the serial number has been defaced, modified or removed. (4) Damaged deterioration or malfunction resulting from: a) Accident, act of nature, abuse, misuse, neglect, unauthorized product repair or modification or failure to follow instructions supplied with the product. b) Repair or attempted repair by anyone not authorized by DENON. c) Any shipment of the product (claim must be presented to carrier). (5) Items subject to wear from normal usage (tape heads, cartridges, stylus, battery, etc.). (6) Periodic check-ups which do not disclose any defect. (7) Use of the product outside the U.S.A. (8) Damaged magnetic tape or CD discs. (9) Use in industrial, commercial, and/or professional applications. (10) Any installation or removal charges resulting from product failure.

What We Will Pay For

If during the applicable warranty period from date of original consumer purchase your DENON audio product is found to be defective by DENON, DENON will repair, or at its option, replace with new, used or equivalent model, such defective product without charge for parts or labor.

How to Obtain Warranty Performance

If your unit ever needs service, it may be taken or shipped to any authorized DENON service station or DENON ELECTRONICS (if you are uncertain as to whether a service station is DENON authorized, please contact DENON as listed below.). In all other cases, the following procedures apply whenever your unit must be transported for warranty service:

- You are responsible for transporting your unit or arranging for its transportation.
- If shipment of your unit is required:
You must pay the initial shipping charges, but we will pay the return shipping charges if the repairs are covered by the Warranty.
- WHEN RETURNING YOUR UNIT FOR WARRANTY SERVICE, A COPY OF THE ORIGINAL SALES SLIP MUST BE ATTACHED.**
- You should include the following: your name, address, daytime telephone number, model and serial number of the product and a description of the problem. In the case of a Compact Disc Player, please enclose ONE (1) disc that the unit has failed with for test reasons. It will be returned with the unit.

THIS WARRANTY IS VALID IN THE U.S.A. ONLY.

If your product does not require service, but you have questions regarding its operation, please contact our Technical Services Department as listed below.

THIS WARRANTY IS EXPRESSLY MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

OUR LIABILITY IS LIMITED TO THE REPAIR OR REPLACEMENT, AT OUR OPTION, OF ANY DEFECTIVE PRODUCT AND SHALL IN NO EVENT INCLUDE INCIDENTAL OR CONSEQUENTIAL COMMERCIAL OR PROPERTY DAMAGES OF ANY KIND.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

This Warranty gives you specific legal rights, but you may also have other rights which vary from state to state.

DENON[®] ELECTRONICS, a Division of DENON Corporation (U.S.A.)

Mailing address only: DENON ELECTRONICS,
P.O. Box 5370
Parsippany, N.J. 07054-5370

DENON

DENON ELECTRONICS,

222 New Road
Parsippany, N.J. 07054
(973) 396-7499
(888) 544-8434 FAX

DENON ELECTRONICS,

13825 Cerritos Corporate Dr., Suite B,
Cerritos, CA 90703-2456
(562) 565-1730
(562) 565-1740 FAX

DENON REGIONAL SUPER SERVICE CENTERS (Repair only — No parts orders please)

PYRAMID AUDIO

8711 Burnett Rd.
Building F, Suite 65
Austin, TX. 78758
(512) 458-8292
(512) 453-4542 FAX

UNITED RADIO

2949 Erie Boulevard East
Syracuse, N.Y. 13224
(315) 446-8700
(315) 446-8505 FAX

AUDIO SERVICES

544 Central Dr., Suite 101
Virginia Beach, VA 23454
(757) 498-8277
(757) 498-9554 FAX

ELECTRO SERVICES

2144 Columbia Avenue
Lancaster, PA 17603
(717) 397-0509
(717) 397-9565 FAX

INNER SOUND

1818 S.E. Division St.
Portland, OR 97202
(503) 238-1955
(503) 238-1787 FAX

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DENON[®] ELECTRONICS,
a Division of Denon Corporation (U.S.A.)
P.O. Box 5370
Parsippany, N.J. 07054

DENON® WARRANTY REGISTRATION

MODEL NO.	SERIAL NO.	DATE SOLD
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DEALER NAME _____

DEALER ADDRESS _____

DEALER TELEPHONE _____

PURCHASER'S NAME		
STREET ADDRESS		
CITY	STATE	ZIP
AREA CODE	PHONE NO.	

A) Who/What was the greatest influence in your final decision to purchase this product?

- | | |
|--|---|
| 1. ☐ Advertising | 5. ☐ Price |
| 2. ☐ Denon brand name | 6. ☐ Product brochure/literature |
| 3. ☐ Product features | 7. ☐ Salesperson |
| 4. ☐ Friend/Relative | 8. ☐ Other (specify : _____) |

B) What other audio equipment do you presently own? Please indicate the make and model.

Turntable _____
 Cartridge _____
 Tonearm _____
 Head Amp/Transf. _____
 Amplifier _____
 Integrated Amp _____
 Tuner _____
 Receiver _____
 Cassette Deck _____

Reel-to-Reel _____
 Speakers _____
 Headphones _____
 Blank Tape _____
 Brand _____ Length _____
 Accessories _____
 Cleaners, _____
 cables, _____
 etc. _____

C) What equipment do you plan to purchase in the next 6 months?

Category _____

Price Level _____

D) Please list the periodicals (Magazines, newspapers, etc.) which you read regularly.
